CLAIMS

What is claimed is:

1. An electrical connection structure for terminating an electrical signal wire and electrically coupling the electrical signal wire to a target circuit board, comprising:

an electrical circuit substrate to which the electrical signal wire is coupled, the electrical circuit substrate having a proximate end being coupled via solder to the target circuit board, the electrical circuit substrate being substantially perpendicular to the target circuit board; and

a termination circuit mounted substantially at the proximate end of the electrical circuit substrate, the termination circuit being electrically coupled to the electrical signal wire and the target circuit board.

2. The electrical connection structure of claim 1, wherein the electrical circuit substrate is a rigid circuit board.

3. The electrical connection structure of claim 2, further comprising:

a guide pin connected to the rigid circuit board, the guide pin protruding through a corresponding alignment hole in the target circuit board.

4. The electrical connection structure of claim 2, wherein the termination circuit comprises at least two stacked passive electrical surface-mount components.

5. The electrical connection structure of claim 2, wherein the termination circuit comprises an active electrical compo[illegible]t

6. The electrical connection structure of claim 2, wherein at least one electrical signal wire may be connected to either side of the rigid circuit board.

7. The electrical connection structure of claim 2, wherein the electrical signal wire is a coaxial signal wire having a shield electrically coupled to the rigid circuit board.

Cont Sub B1

8. The electrical connection structure of claim 2, further comprising a protective cover that at least partially encloses the rigid circuit board.

9. The electrical connection structure of claim 1, wherein the electrical circuit substrate is a flex circuit.

10. The electrical connection structure of claim 9, further comprising:

a rigid board attached alongside the flex circuit at the proximate end opposite the side of the flex circuit where the termination circuit is mounted.

11. The electrical connection structure of claim 9, further comprising:

a socket connected to the flex circuit, the socket being capable of receiving a mating plug to which the electrical signal wire is connected.

12. The electrical connection structure of claim 9, further comprising:

a guide pin connected to the flex circuit, the guide pin protruding through a corresponding alignment hole in the target circuit board.

13. The electrical connection structure of claim 9, wherein the termination circuit comprises at least two stacked passive electrical surface-mount components.

14. The electrical connection structure of claim 9, wherein the termination circuit comprises an active electrical component.

Cont Sub B1

15. The electrical connection structure of claim 9, wherein the flex circuit is a rigidized flex circuit.